ABSTRACT

A voice coil motor used in a positioning means associated with either a first object table or a second object table in which the coil is cooled with a cooling jacket in thermal contact with the coil, the cooling jacket comprising at least one channel for circulation of a cooling fluid, the or each channel being arranged such as to be substantially located in a portion of the cooling jacket adjacent to the coil, for use in a lithographic projection apparatus comprising:

a radiation system for supplying a projection beam of radiation;

a first object table for holding a mask;

a second object table for holding a substrate;

a projection system for imaging irradiated portions of the mask onto target portions of the substrate.

The cooling jacket may be formed of a ceramic material and preferably is of a monolithic construction.